Previous references

1911-12
(Esh)

File No 123-11
Serial Nos 1-154

Later references

GENERAL AND REVENUE SECRETARIAT

Serial No 154

Part B for January 1913

SUBJECT

Inspection of the Potting Dept of the Mysore Industrial School by Mr E. Thompson

From the Dy C of Esh - No 3492 of 1-11-11 states that the late Mr Venkatasubbiah deputed Mr Thompson to inspect the Potting Section of the Mysore Industrial School & report on any improvements regarding it on a remuneration of Rs 150/- & requests sanction & the payment of the remuneration

2 To the Dy C of Esh & Comptroller - No 5700-1 of G R S 58 1/1912 sanctions the payment of the remuneration of Rs 150/- to Mr Thompson as recommended

3 From the L.G. of Edn. No 3162/1719
12/9/12 submits copy of his
Thompson's report on the improvements
that may be effected in the plotting
System of the Industrial School

4 To the L.G. of Edn & Spl Adviser for
Industries & Commerce — No 4850-19
10/4/13 recds the correspondence
& forwards a copy of the report to
the Spl Adviser for Industries &
Commerce

H. Subbaiah
2/4/13

2280

(C I S 11]

1911-12

CENTRAL AND PROVINCIAL SECRETARIAT

(Educ)

NOTE

File No 123-11

SUBJECT HEADING

Inspn of the Pottery Deptt of the Imperial Indl School by Mr. G Thompson.

From The Govt of Educ in Imperial

No 3492/241 Dated 1/11/11 Received 3/11/11

Draft 2280 Enclos Spare Copie Send No

SUBJECT OR TRACT OF LETTER

States that the Govt deputed Mr. G Thompson to inspect the Pottery Section of the Imperial Indl School and Report on any improvements Regarding it on a Remuneration of Rs 150 and Requests Sanction to the payment of the Remuneration

NOTES AND ORDERS

Asked with a Govt order. This may be sent to D.P.I. for noting whether any Report to the Residency is Required in this Case Mr. Thompson seems to be a European

I don't think any such report is necessary However D.P.I will please note also

3/11/11

Notes—First Sheet

(GLB 3000—12/10)

G R S 12]
General and Revenue Secretariat

Edn File No 123 of 1911-12

Serial No

Gen mis Ref: 85 of 11-12 G

It is not known from the papers on the file what appointment Mr. Thompson is holding at present As he is reported to be a European his ~~present~~ deputation to inspect and report on the Pottery ~~Section~~ of the Mysore Industrial School ~~has~~ will have to be reported to the Residency and Sanction of the Govt of India obtained to the payment of the remuneration in question The deputation though a temporary one and for a short period only will have to be considered as an engagement

Submitted

VS 4

7-11-11 3 I am not sure that the engagement of Mr. Thompson in the present case can be said to be an employment

NOTE—Contn sheet

GPB—5000 -12 8 10

2284 3

R S 12]

General and Legislative Secretariat — Edn Dte \ 123 of 1911-12

Send \

in the service of Govt for which alone the sanction of the Govt of India is necessary I think the draft order put up may be approved

Secretary) 9/11/11

4 No reference to Resr seems necessary - Draft may be approved

2nd C) 9/11/11

5 I agree 9/11/11

6 Dewan 9/11/11

14346/11/13

7 Draft added to and approved by Dewan 11 2 12

Issue 12/2/13

2 To the Govt of Edn & Complt no 5700-1 9/172 12 Sanctions the payment of a remuneration of Rs 150 to Mr Thompson observes that his deputation without the sanction

4 1725

G R S 12]
General and Revenue Secretariat

Edn File No 123 of 1911

Serial No

of Govt is objectionable, and calls for a copy of his report

3 From the Dept of Edn
No 3162/1712/12/9/12
Submits copy of Mr Thompson's Report on the improvements that may be effected in the Posting Section of the Imperial Intl School Sected and his Depts Remarks thereon

Thm 23 26/9/12 (19) 9 secy) bm 28/9/12

1000 10 Pvc Counsellor
(H) & Dewan EB 4/10
No action necessary bm at present
24 12/11/12
Hm 05/11/12
EB 11/11
bm

12 I agree If copy may however be forwarded to the Spl Officer for Education & Commerce
26/12 bb
EB 28/12

bc S 26 26/12/12

NOTE—Contn sheet

GPB—50 00 —12 8 10

1785 5

G R S 12]
General and Revenue Secretariat

File No 123 of 1911-12

Serial No	
	13. Draft Sanctd. 5/1/13 Issued 7/1/13
4	To the Govt of Eou & Special Advisor for Industries & Commerce, no. 4650-1 dy 10.1.13 Records the correspondence, and forwards a copy of the report to the Special Advisor for Industries & Commerce

NOTE—Contn sheet

GPB—50 000—12 8 10

Urgent

Diary No 2284

10 11 10 12

SECTION Edn

FILE No 12-3

Edn 81]

OFFICE OF INSPECTOR GENERAL OF EDUCATION IN MYSORE

No 3492 / 241

Bangalore, 1st November 1911

From

~~H. J. BHABHA Esq M A~~

The *Inspector General of Education in Mysore*

To

C S Balasundara Iyer, Esq , B A ,

Offg Secretary to the Government of H H the Maharaja of Mysore General and Revenue Departments, Bangalore

SIR

I have the honour to inform you that Mr E Thompson was deputed by the late Inspector General to inspect and report on any improvements regarding the Pottery Section of the Industrial school, Mysore and fixed a sum of Rs 150/- as remuneration inclusive of all charges Mr Thompson has inspected the school and submitted a report which has been placed before the Committee of the Industrial School He has been demanding the payment of his remuneration

2 In the circumstances, I request that Government may be pleased to sanction the payment of the remuneration of Rs 150/- to Mr E Thompson, the charge being met out Rs 10,000/- set apart for the Pottery Section vide Government Order No 6070-1/Edn 3 0-10-2 dated 1st June 1911 I request that you will be good enough to treat this as urgent and obtain very early orders of Government

I have the honour to be,
Sir,
Your most obedient servant

GPB—1500—9 6-09

For Inspector General

Rd. 1911

Edn 81] 1911-12

From

~~H J BHABHA, Esq., M.A.,~~

The *Inspector General of Education in Mysore*

To

The Offg Secretary to the Govt of H H the Maharaja of Mysore, General & Revenue Departments, Bangalore

No 3492 / 241

Dated 1st November 1911

Received

No of Enclosures

Subject

Requesting the Sanction of Government for the payment of Rs 150/- to Mr E Thompson for inspecting the Pottery Section of the Mysore Industrial School.

GPB—1 500—4 7 09

GRS 28]

File No 123-11
Serial No 2

Diary No of letter replied to 2264

Proceedings of the Government of His Highness the Maharaja of Mysore

GENERAL AND REVENUE SECRETARIAT
( )

the 19

Date of issue 17-2-12

Signed by [illegible]

READ— Letter No 3492-241 dated the 1st November 1911 from the Dept of Edn in Mysore, stating that Mr S Thompson was deputed by the Govt of Edn to inspect and Report on any improvements that may be effected regarding the rolling section of the Mysore Indl School, on a fixed Remuneration of Rs

over

SUBJECT

GPB—10 000 29 9 10

150 increase of all charges
and requesting sanction to
the payment of the remuneration
to Mr Thompson, he having
inspected the School & drawn
a Report

Govt Treasury

No 5700-1
Edn 123-11

17 2 12

The payment of a Remuneration
of Rs 150 to Mr G Thompson
is sanctioned as recommended
but this deputation & others
like it should not be undertaken
2 A copy of Mr Thompson's
Report should be sent
when early date

9/11/11

Sd/ Secy
9 11 11

To The Director of Public
Instruction

Copy
Secy
17/11/11

F.C. Taylor

4 1785

11. 12

Edn

12

Edn 81]

FILE NO

OFFICE OF INSPECTOR GENERAL OF EDUCATION IN MYSORE

OFFICIAL NO 3

No 3162 / 171 Edn

Bangalore 12th Sept *1912*

From T Shama Rao Esq A
Offg *Inspector General of Education in Mysore*

To
T P Srinivasiengar Esq A
Offg Secretary to the Government of His Highness
the Maharaja of Mysore General & Revenue Departments

Sir

With reference to para 2 of Government order No 5700-1/Edn 123 11-2 of the 17th February 1912, I have the honour to submit herewith a copy of Mr Thompson's report on the improvement that may be effected regarding the Pottery Section of the Industrial School, Mysore and a Copy of Mr Subbus ami Iyer's report regarding the same

I have the honour to be
Sir
Your most obedient servant

T Shama Rao

Offg InspectorGeneral

Ed
Wa

Edn 81]

1912-13

From

M Shama Rao, Esq , M A

Offg *Inspector General of Education*

in Mysore

To

The Offg ~~Inspector~~ Secretary t
the Govt of H H.the Maharaja
of Mysore, Gel & Rev Depts

No 3162/171

Dated 12th September 1912

Received

No of Enclosure 2

Subject

Submitting a copy of Mr ~~Mo~~ Mysore's Report regarding the improvements suggested in the Pottery Section of the Mysore Industrial School

Enc to 5—
Edn 123-11-3

160

Government Industrial School
Mysore 10th August 1912

From

The Superintendent
Industrial School Mysore on other duty

To

The Inspector-General of
Education in Mysore Bangalore

Sir

With reference to your No 2441/180 dated 11th September 1911 I have the honour to state that of the two edge runners already selected in the school the one now received was approved by Mr Thompson and the sub committee appointed for it The extent to which the machine satisfies the requirements of the department will be reported on some time after the machine will have worked It is the opinion of one or two other ceramic experts that a clay grinder will be found necessary to bring the Mysore clay full of quartz to a satisfactory condition

2 As regards para 2 of the report I beg to state that I corresponded with the firms recommended by Mr Thompson and I received from them specifications and estimates for their patent kilns When I went on special duty in January last I inspected the kilns in Quilon and Bangalore which were referred to by the patentees I thought that the one at Quilon was a fairly satisfactory one When I consulted however two other ceramic experts who have a thorough practical scientific knowledge of such kilns and who are acquainted with all the recent developments in the construction of kiln they told me that both the kilns were not so well suited for the school They think that the present kiln answers the purpose fairly well but they cannot stand long as the materials used are bamboos &c they were purposely but

with barboos for convincing the school authorities that good kilns could be built by the Maistry As the question is a very important one I am still discussing the matter and I hope to secure a satisfactory decision at a very early date

3 As regards the buildings Mr Thompson's views are not shared by the other experts with whom I had a long talk on the subject All are agreed that the buildings must be such as to be capable of being supervised from one place The other two experts agree with the Maistry and think that the drying shed must be over the kiln From my humble experience of the work in this country where the conditions of weather are different from those prevailing in the West Coast I am inclined to think that the tiles must be dried for a few days in closed sheds away from the kiln and must then be stacked over the kiln that they may be fully dried with the help of the heat from the kiln

4 His remarks about the presses and dies are perfectly true and they have been repeatedly brought to your kind notice A few dies have already been replaced and a few more have soon to be got When these are supplied to carry on the work fresh sets of dies will be sent for from England as suggested by Mr Thompson A second motor of 15 or 20 horse power will have to be soon sent for to work the Crushing and the Pug Mills together 80 more racks 6000 frames 2000 planks for flooring tiles 150 ridge tile frames and a few sundries such as spades etc are urgently required If these be sanctioned if the racks and flooring tile planks that are now being made in the school be soon supplied and if the temporary continuous kiln be enlarged a little the equipments will be fairly complete

5 The prospecting work referred to by Mr Thompson was being attended to slowly by the Maistry whenever he could get time When I was placed on special duty in January last the work was pushed through and very large areas of promising clay fields have been

spotted

spotted Perfectly satisfactory results are expected when tiles are made from a mixture of some of these specimens

6 As regards ripening of the clay I beg to differ from Mr Thompson, The time fixed by him is found to be hardly sufficient even for the present requirements of the market The clay must rot at least for 18 months if good satisfactory materials are to be given to the public Provision for clay tanks has accordingly to be made

7 When the equipments are complete the technical portion of the work will be attended to by the Maistry If the concern is to be a success it is highly necessary that careful intelligent supervision is exercised by a man of good business habits Finishing the roofing and flooring tiles could not be, till now, properly attended to for want of accommodation The Maistry has always been complaining of the want of the same process that Mr Thompson now suggests When the racks etc are completed this will be attended to

8 I beg to add that I am much ~~obliged~~ indebted to Mr Thompson as his referring me to the two firms in Europe has secured for me valuable information about the kilns

9 A report on the points referred to in para 2 of the letter under reply was submitted in this office No 420 dated 22nd December 1911

10 Soon after this report was referred to me I had opportunities of going into the matter more deeply I had therefore to wait for the results before submitting the report

11 I beg to return herewith the report of Mr Thompson

I have the honour to be

Sir

Your most obedient servant

(Sd) C Subbuswami Aiyar

Superintendent on other duty

(Copy)

Offg Inspector General

11

Enc 6
Con 123-11-3 9

REPORT ON THE CERAMIC DEPARTMENT - MYSORE INDUSTRIAL SCHOOL - OF THE GOVERNMENT OF MYSORE

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1 Selection of new crushing machine -

For the above I have selected Messrs John Whitehead & Co's "Improved Self-delivery Edge Runner" as per their blue print and specificiation with the Superintendent The machine has many advantages over others of its kind as its construction is capable of giving the mixture the utmost amount of crushing and pugging which is most essential in the manufacture of terra-cotta articles especially when the clay has large pieces of quartz and other hard stone and receives no other treatment but that of ripening in the Vats Machines such as Crushing Rolls' worked by spurr wheels are unsuitable the principal reason being that the rollers once adjusted cannot be regulated after the wear down to crush to a finer degree than the existing space and the only mixing and crushing that takes place is at the point where the rollers would come into contact with each other were they to be jammed together- the mixing and crushing is therefore of one seconds duration only

2 Improvement in present Plant -

A new Continuous Kiln" with chimney should be erected in place of the (3) three primitive Kilns now in use and until this is done little or no improvement can be expected in attaining the required result viz uniform burning and color The Chemistry in Charge has drawn out a plan of a continuous kiln which is somewhat on the same principle of the present one The objection to this Kiln is that the furnaces for firing are in the centre of each chamber this bringing the articles loaded above in direct contact as it were with the flames and heat As a result there will always be a fairly high percentage of over-burned and distorted articles and this is one of the many defects in the present Kilns which is accountable for the very poor results they are giving A high

chimney properly constructed would give a larger percentage of better burned goods but this only would not remove the chief and other minor defects

I have given the Superinterdent of the School the names and addresses of two Firms in Europe who are Specialists and Patentees in Continuous Kiln" and he the Superintendent has written to both Firms by the last mail asking for full details regarding their respective Kilns I would therefore suggest that nothing further be done in the matter till these details are received as Government having sanctioned the erection of a new Chimney would perhaps think it advisable to replace the present kutcha built kilns with one more up to date and reliable in its results

The Superinterdent placed before me two revised "Plans" which have been drawn up to the Ministry's suggestions and I consider the first in order to meet the requirements viz a maximum daily out put of 3 000 tiles and 1 000 bricks The second Plan' is similar to the first with the exception that the roof covering the kiln is very much higher and has a too storey to accommodate the racks for roofing tiles etc The object of is to utilize the waste heat which rises from the Chamberls for drying but as all articles made from terra-cotta clays cannot be dried too quickly without the risk of cracking or twisting (especially roofing tiles) this arrangement would only be of good service during the monsoons The initial cost of this system will be more and it is only a question whether the benefit gained for the short period during the monsoons warrants this extra expenditure Much difficulty may also be experienced in drying during the dry months as tiles now crack and twist in the sheds that are close to the roof or near an opening

The present presses can give an outturn of 6 000 and more tiles daily and as the Superintendent informed me that only

half

half this quantity is required there is nothing further to say in this connection I may however add that the Brightside Foundry and Engineering Coy London be asked for quotations for roofing tile dies to suit 13½" spacing of reepers viz from upper edge to upper edge and to be of the same design as supplied to other Firms in India English dies are not only more lasting but better finished than dies made in India and as a natural result give a superior tile in every respect One more Vat or Tank, same size as present one will be required for ripening the clay The present Oil Engine should be substituted by a 30 B H P Electric Motor for driving the Edge Runner and Brick Machine

3 Duplication of parts of Tile Presses etc to be kept in stock

One set of dies and fittings for each Roofing Tile Press
One set of dies and fittings for each Flooring and Ridge Tiles
One set of blades and worm for Brick Machine
One set of moulds for Roofing and Flooring Tile Sheets

Improvements in Drying Sheds or Racks

The fault with the drying sheds is that they are not fitted throughout with racks There are now 70 racks which accommodate approximately 8 750 tiles and the Superintendent informed me that he intends putting up a sufficient number to cope with the present requirements The racks are well made and answer the purpose admirably

5 Quantity and Quality of Clay available

There are two quarries or fields from which the clay is procured Hosa-mandi and Huncha-Ramahalli both are between 4 and 5 miles distance from the School The quantity in the first named field is limited and will last between 5 to 6 years but

that

that of the second seems to be unlimited Most or nearly all the land is now under cultivation but from the area pointed out to ~~he~~ me by the Superintendent there need be no fear regarding the supply for many years to come

The quality could be better although under proper conditions it would give a much better result than at present On my suggesting to the Superintendent that further prospecting work should be carried out not only with a view of getting a better quality of clay but to reducing the distance if possible I was informed that this was being done

The present tile mixture is -

Hosa Hundi - one part

Hunchi-Ramahalli - two parts

River or Nalla Sand - one tenth

I suggest that in place of the sand experiments be made with a "red loam' as this will not only prevent undue shrinkage (for which purpose the sand is used) but will help in producing a richer color and further strengthen the tile The best method to arrive at reliable results is to experiment with different mixtures as though the analyses of the materials being tried are known this will not help to bring about the desired results near so quickly as actual experiments in mixing different proportions and burning same in the required kilns

The Clay I'm informed is allowed to ripen in the Vat for a period of six months before being used but the Maistry wishes the time extended to 4 years or so so as to be able to produce a superior article than that produced at present This would be quite a natural result and the best possible results would be attained if the clay could be so kept for a period of say 8 or 10 years I however think six calender months sufficient for the ripening process and I feel sure that articles made from clay

so

so treated would be quite up to the present market standard It is unnecessary to comment on the enormous out lay of a 4 or 5 years' stock and also the very large area that will always have to be kept in reserve for same

6 New Chimney

From the drawing put before me the Chimney to be built is 200 feet in height 3 ft inside dia at base and 1½ ft inside dia at top In my opinion a Chimney 100 to 110 ft in height is only necessary and even for a kiln double and more of the burning capacity than the present 3 kilns The diameters at base and top also seem to be somewhat out of proportion to the height (200 ft) as in the latter case the measurements would be 6 feet at base and 4 feet at top These details are included in the questions in the letter written by the Superintendent to the Patentees, so it would be advisable to keep the matter pending till the replies are received I may however repeat the fact that Chimney building is a speciality and its construction therefore should be left entirely to the Department best able to carry out the work satisfactorily viz the D P W There also appears to be a slight error in the estimate as I do not think a chimney 200 ft in height could be constructed at a total cost of Rs 9000

General Remarks

To bring the qualify of the Tiles etc , up to the D P W standard at the same time keeping the cost of production as low as practicable an up-to-date "Continuous Kiln" with Chimney is absolutely necessary as also a new "Edge Runner" The money spent on the above would be invested in the right direction and in a few years would not only repay the outlay but also the loss the Industry has suffered since its inauguration, and so long as the present system of working exists the business cannot be expected to be anything otherwise than a "losing game"

I explained to the Superintendent the method of finishing and drying roofing and flooring tiles and in Ceramic work success chiefly depends on the skill and common sense exercised by the work people in each stage of progress and this result can only be attained by careful supervision as common sense being a virtue they very rarely use it if left to themselves

Both roofing and flooring tile boards should be carefully examined with a "steel straight edge" and the faces should be perfectly square lengthwise and breadthwise to ensure the tiles from twisting during drying I pointed out this defect to the Superintendent as well as the Maistry

In conclusion I feel I must mention that the Superintendent was most courteous and obliging and rendered me every assistance for which I am much obliged

Bangalore)
) (Sd) E Thampson
The 14th Aug 1911)

(Copy)

Offg Inspector General

T N R

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GRS 28]

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66

File No 123-11
Serial No 4

Diary No of letter replied to 1783

Proceedings of the Government of His Highness the Maharaja of Mysore

GENERAL AND REVENUE SECRETARIAT
( )

the 19

Date of issue 10/13

Signed by Mr SDDR

READ— Letter No 3162/171 dy the 12th Sept 1912 from the Dpt of Edn in Mysore Submitting a Copy of Mr Thompson's Report on the improvement that may be effected in the Pottery Section of the Mysore Govt School and a Copy of the Remarks thereon by Mr Subbaswamy Asst Supdt of the Mysore Govt School.

ORDER THEREON—No

over

SUBJECT

GPB—10 000 2/9/10

Order thereon

No 48501
Admrs-N 10/13

Recorded

2. A copy of Mr Thompson's Report with his Salutary among his Remarks thereon with the forwarded to the Special Advisor for Industries & Commerce.

9/13
For Secy

To The Dept of Com
& Special Advisor for Industries
& Commerce with a Copy
of the Report

Copies 9/13
9/4/13

MW
BB
5/1/13